PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2003UR014	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.					
International application No. PCT/US04/08238	International filing date (day 18 March 2004 (18.03.2004		(Earliest) Priority Date (day/month/year) 31 March 2003 (31.03.2003)				
Applicant EXXONMOBIL UPSTREAM RESEARCH COMPANY							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.							
Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).							
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.							
2. Certain claims were found unsearchable (See Box No. II)							
3. Unity of invention is lacking (See Box No. III)							
4. With regard to the title ,							
the text is approved as submitted by the applicant.							
the text has been established by this Authority to read as follows:							
			r				
5. With regard to the abstract,							
the text is approved as submitt	ted by the applicant.						
the text has been established, a may, within one month from t	according to Rule 38.2(b), by he date of mailing of this inte	this Authority a	s it appears in Box No. IV. The applicant report, submit comments to this Authority.				
6. With regard to the drawings,							
a. the figure of the drawings to be pu	blished with the abstract is F	igure No. 1					
as suggested by the ap	as suggested by the applicant.						
as selected by this Au	as selected by this Authority, because the applicant failed to suggest a figure.						
as selected by this Au	as selected by this Authority, because this figure better characterizes the invention.						
b. none of the figures is to be published with the abstract.							
orm PCT/ISA/210 (first sheet) (January 2004)							

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08238

Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet) **NEW ABSTRACT** A method to determine the properties of a water-lain sediment body 16 from a measurement of grain size distribution and deposit thickness at one location in the deposited sediment body. Using method modeling steps to determine the flow properties at the measuring location and extrapolating the flow properties back to the fluid inlet through which the depositing flow were emitted and providing computation steps for determining a property of the water-lain sediment throughout the sediment deposit body using modeling of the fluid properties with extrapolated flow properties at the inlet set as the boundary condition.

Form PCT/ISA/210 (continuation of first sheet(3)) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/08238

	SIFICATION OF SUBJECT MATTER						
IPC(7) : G01V 7/00							
US CL: 702/002 According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED							
Minimum do	cumentation searched (classification system followed	by classific	cation symbols)				
U.S.: 702/002							
Documentation	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
EIC publications for sediment river bed deposits with modeling and geological reservoir featyres.							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)							
	ey word and terms for modeling steps.			·			
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where a	of the relevant passages	Relevant to claim No.				
. A	US 5,646,342 A (Hagenes) 8 July 1997 (8.07.1997	1-14					
			1 14				
A	US 5,136,551 A (Armitage) 4 August 1992 (4.08.1	ntire document.	1-14				
A, E	US 2004/0260472 A1 (Deffenbaugh et al.) 23 Dece	1-14					
, _	document.						
A, E	US 2004/0236511 A1 (Deffenbaugh et al.) 25 November 2004 (25.11.2004), see entire			1-14			
Α	patent. US 6,246,963 B1 (Cross et al.) 12 June 2001 (12.06.2001), see entire document.			1-14			
Λ.	03 0,240,705 B1 (Cross of all.) 12 valie 2001 (12.0						
Α	US 5.844,799 A (Joseph et al.) 1 December 1998 (1-14					
Α	US 4,821,242 A (Hennington) 11 April 1989 (11.04	1-14					
Α	US 6,205,402 B1 (Lazaae et al.) 20 March 2001 (2	1-14					
Α	A US 3,268,858 A (Winter) 23 August 1966 (23.08.1966), see entire document.						
^	A						
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Further	documents are listed in the continuation of Box C.		See patent family annex.				
* S _I	pecial categories of cited documents:	"T"	later document published after the intern date and not in conflict with the applicat				
	defining the general state of the art which is not considered to be of		principle or theory underlying the inven				
particular		"X"	document of particular relevance; the c				
"E" earlier app	plication or patent published on or after the international filing date		considered novel or cannot be considered when the document is taken alone	ed to involve an inventive step			
"L" document	which may throw doubts on priority ctaim(s) or which is cited to he publication date of another citation or other special reason (as	"Y"	document of particular relevance; the c	laimed invention cannot be			
specified)			considered to involve an inventive step with one or more other such documents	when the document is combined			
"O" document	referring to an oral disclosure, use, exhibition or other means		obvious to a person skilled in the art	, sact combination sound			
"P" document published prior to the international filing date but later than the		"&"	document member of the same patent fa	amily			
priority date claimed							
Date of the actual completion of the international search		Date of m	nailing of the international search	ch report			
30 March 2005 (30.03.2005)			. 7 9 JUL 200	03			
Name and mailing address of the ISA/US		Authorize	179 JUL 2011 d officer Michel	le R. Eosen			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents		Victor J.		•			
P.O. Box 1450			e No. 571-272-1750				
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230							
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